

FEE TRANSMITTAL		Complete if Known	
Patent fees are subject to annual revision		Application Number	10/649,999
<input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27		Filing Date	August 26, 2003
		First Named Inventor	Jheroen P. Dorenbosch
		Examiner Name	Fox, Bryan J
		Group Art Unit	2686
		Attorney Docket No.	CE10990J1121
TOTAL AMOUNT OF PAYMENT		(\$ 500.00)	

METHOD OF PAYMENT (check all that apply)		FEE CALCULATION (continued)																																																																																																																																																																																																																																										
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Name (Print/Type) Larry G. Brown		Registration No. 45,834 Telephone 954-723-4295																																																																																																																																																																																																																																										
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MAY 25 2006



MOTOROLA

FAX TRANSMITTAL SHEET

Motorola, Inc.
Law Department - MD 1610
8000 W. Sunrise Blvd.
Plantation, FL 33322
Telephone: (954) 723-6449
Fax: (954) 723-3871

54 Number of Pages (including this page)

Date: May 25, 2006
To Examiner: Fox, Bryan J
Location: United States Patent and Trademark Office
Fax No.: Centralized Fax Number: 1 (571) 273-8300
From: Larry G. Brown - Registration No. 45,834
Attorney's Docket No. CE10990J1121 - Dorenbosch, et al. Confirmation No. 6041

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MESSAGE:

In connection with the above-identified Patent Application, please find attached herewith the following documents:

- 1 page Transmittal Form;
- 1 page Fee Transmittal (in duplicate);
- 2 pages Transmittal Letter for Appeal Brief (in duplicate);
- 32 pages Appeal Brief; and
- 16 pages Materials in Support of Appeal Brief

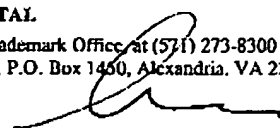
PLEASE DELIVER THESE PAPERS TO:

EXAMINER:	Fox, Bryan J
GROUP ART UNIT:	2686
SERIAL NO.:	10/649,999
FILED:	August 26, 2003
INVENTOR:	JHEROEN P. DORENBOSCH

CERTIFICATE OF FAX TRANSMITTAL

I hereby certify that this correspondence is being facsimile to the United States Patent and Trademark Office at (571) 273-8300 Centralized Facsimile, addressed to :Mail Stop: APPEAL BRIEF-PATENTS, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date listed below:

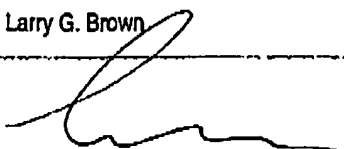
Date: May 25, 2006

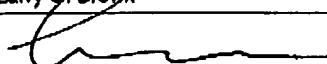
Signature: 
Printed Name: Larry G. Brown

MAY 25 2006

TRANSMITTAL FORM <small>(to be used for all correspondence after initial filing)</small>		Application Number		10/649,999	
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Total Number of Pages in this Submission		53	Attorney Docket Number		CE10990J121

ENCLOSURES			(check all that apply)
<input checked="" type="checkbox"/> Fee Transmittal Letter <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment/Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/Declaration(s) <input type="checkbox"/> Extension of time Request <input type="checkbox"/> Express Abandonment Request <input type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Documents <input type="checkbox"/> Response to Missing Parts/ Incomplete Application <input type="checkbox"/> Response to Missing Parts Under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Assignment Papers (for an Application) <input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-Related papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation, Change of Correspondence Address _____ <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CDs	<input type="checkbox"/> After Allowance Communication to Group <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input checked="" type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter with appropriate copies <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below) <input checked="" type="checkbox"/> Transmittal Letter for Brief on Appeal <input checked="" type="checkbox"/> Materials in Support of Appeal Brief	
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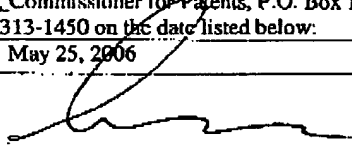
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Firm or Individual	Larry G. Brown	Registration No.	45,834
Signature			
Date	May 25, 2006		

CERTIFICATE OF TRANSMITTAL/MAILING			
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Typed or printed name	Larry G. Brown		
Signature			Date
			May 25, 2006

MAY 25 2006

UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT(S) Jheroen P. Dorenbosch CONFIRMATION NO.: 6041
APPLN. NO.: 10/649,999 EXAMINER: Fox, Bryan J
FILED: August 26, 2003 GROUP ART UNIT: 2686
DOCKET NO. CE10990J1121
TITLE: SYSTEM AND METHOD TO IMPROVE WLAN HANDOVER
BEHAVIOR AND PHONE BATTERY LIFE WHEN STATIONARY IN
BORDER CELLS

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Date:	May 25, 2006
Signature: Typed or Printed Name:	 Larry Brown

TRANSMITTAL LETTER FOR BRIEF ON APPEAL

Mail Stop: APPEAL BRIEF-PATENTS
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Enclosed please find one copy of an Appeal Brief filed on behalf of the applicants in the matter of the above entitled application. This Brief is filed pursuant to 37 CFR § 1.192 and following the Final Rejection dated February 9, 2006 and the Notice of Appeal filed by Applicant on May 25, 2006.

MAY 25 2006

The Commissioner is authorized to charge the \$500.00 requisite fee for filing the enclosed Brief to Motorola, Inc., Deposit Account No. 502117. Any overpayment should be credit to the same Deposit Account.

Respectfully submitted,



SEND CORRESPONDENCE TO:

Motorola, Inc.


Customer Number: 24273

By: Larry G. Brown
Attorney of Record
Reg. No. 45,834
Telephone: (954) 723-4295
Fax No.: (954) 723-3871

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MAY 25 2006

FEE TRANSMITTAL Patent fees are subject to annual revision <input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27		Complete If Known	
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		Examiner Name	Fox, Bryan J
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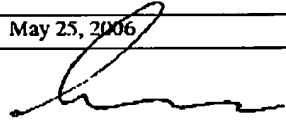
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Application No. 10/649,999
Appeal Brief dated May 25, 2006

CE10990J1121

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
BEFORE THE BOARD OF PATENT APPEALS AND INTERFERENCES

APPLICANT: Fox, Bryan J ART UNIT: 2642
APPLN. NO.: 10/649,999 EXAMINER: Fox, Bryan J
FILED: August 26, 2003
TITLE: SYSTEM AND METHOD TO IMPROVE WLAN HANDOVER AND
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Date:	May 25, 2006
Signature: Typed or Printed Name:	 Larry G. Brown

APPEAL BRIEF

Mail Stop: **APPEAL BRIEF-PATENTS**
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Attention: Board of Patent Appeals and Interferences

Dear Chief Administrative Patent Judge:

This Appeal Brief is in furtherance of the Notice of Appeal transmitted via facsimile on May 25, 2006.

Application No. 10/649,999
Appeal Brief dated May 25, 2006

CE10990J1121

The fees required under 37 C.F.R. § 1.17(c) for filing this Appeal Brief have been authorized in the accompanying forms.

This brief is being transmitted by facsimile pursuant to 37 C.F.R. § 1.6(d).

This brief contains items under the headings listed in the following Table of Contents, as set forth in 37 C.F.R. § 1.192(c).

Application No. 10/649,999
Appeal Brief dated May 25, 2006

CE10990J1121

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CE10990J1121

I. REAL PARTY IN INTEREST

The real party of interest is Motorola, Inc., a Delaware corporation.

II. RELATED APPEALS AND INTERFERENCES

There are no related appeals or interferences.

III. STATUS OF CLAIMS

This is an appeal from the final rejection of claims 1-23 and 25-30 of the above-referenced application.

A. TOTAL NUMBER OF CLAIMS IN APPLICATION

There are a total of 29 claims in the application.

B. STATUS OF ALL THE CLAIMS

1. Claims allowed: none
2. Claims objected to: none
3. Claims rejected: 1-23 and 25-30

C. CLAIMS ON APPEAL

The claims on appeal are: 1-23 and 25-30.

IV. STATUS OF AMENDMENTS

A Final Rejection was mailed on February 9, 2006 in response to an Amendment filed on November 7, 2005. The Amendment and arguments were considered by the Examiner but were deemed unpersuasive and moot in view of

Application No. 10/649,999
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CE10990J1121

new grounds of rejection. Applicants faxed a Notice of Appeal on May 25, 2006.

This Appeal Brief is submitted in support of the Notice of Appeal.

V. SUMMARY OF THE CLAIMED INVENTION

Although specification citations are inserted below in accordance with C.F.R. 1.192(c), these reference numerals and citations are merely examples of where support may be found in the specification for the terms used in this section of the brief. There is no intention to in any way suggest that the terms of the claims are limited to the examples in the specification. Although, as demonstrated by the reference numerals and citations below, the claims are fully supported by the specification as required by law, it is improper under the law to read limitations from the specification into the claims. Pointing out specification support for the claim terminology, as is done here to comply with rule 1.192(c), does not in any way limit the scope of the claims to those examples from which they find support. Nor does this exercise provide a mechanism for circumventing the law precluding reading limitations into the claims from the specification. In short, the reference numerals and specification citations are not to be construed as claim limitations or in any way used to limit the scope of the claims.

The claimed subject matter pertains to a method (700, 800, 900, 1000, 1100) and mobile subscriber unit (306) for improving handover between different communications systems and the battery life of the unit (306). In particular, the unit

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(306) may be a dual-mode device that operates in wide area network (WAN) cells (102) of a WAN wireless system and wireless local area network (WLAN) cells (104) of a WLAN system (see FIG. 3 and page 9, lines 8-11). For example, the unit (306) may include two sets of transceivers (404, 410), one for the WAN system and one for the WLAN system, for transmitting, receiving, encoding and decoding wireless signals for the frequencies and characteristics of its corresponding system (see FIG. 4 and page 9, lines 20-24). In addition, the mobile subscriber unit (306) may include a means for detecting movement of the unit (306), such as an accelerometer (314) or hardware for use with a global positioning system (GPS) (see FIGs. 3 and 4 and page 9, lines 12-14).

Based on a triggering event while the mobile subscriber unit (306) is operating in a first communication system, the unit (306) can initiate a registration sequence with a second communication system (see FIGs. 7-11 and page 4, line 18 to page 5, line 2). The triggering event may be the detection of a WLAN border cell 210 (see page 4, lines 22-23). As an example, the first communication system can be a WLAN, and the second communication system may be a WAN, which makes them different and separate communications networks (see page 5, lines 13-18). Moreover, the unit (306) may conduct a current call or a subsequent call via the second communication system in response to determining that the speed or displacement of the unit (306) exceeds a first threshold (see FIGs. 7-11 and page

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5, lines 2-5). In response to determining that the speed or displacement of the unit (306) does not exceed a second threshold, the unit (306) may abort the registration sequence (see FIGs. 8, 9 and 11 and page 5, lines 7-9). Aborting the registration sequence may include deregistering the unit (306) from the second communication system (see page 17, lines 16-20).

VI. ISSUES ON APPEAL

Whether claims 1, 9-11, 14, 16, 17, 22 and 28 are patentable under 35 U.S.C. 102(e) over U.S. Patent No. 6,714,785 to Han (Han).

Whether claims 2-8, 12, 15, 21, 23, 25-27 and 29 are patentable under 35 U.S.C. 103(a) over Han in view of U.S. Patent Application Publication No. 2004/0203789 to Hammond, et al. (Hammond).

Whether claims 18-20 are patentable under 35 U.S.C. 103(a) over Han in view of Hammond and further in view of Applicant's admission of prior art.

Whether claim 13 is patentable under 35 U.S.C. 103(a) over Han in view of Hammond and further in view of U.S. Patent Application Publication No. 2003/0109258 to Mantyjarvi, et al. (Mantyjarvi).

Whether claim 30 is patentable under 35 U.S.C. 103(a) over Han in view of Hammond and further in view of U.S. Patent No. 6,771,963 to Cheng, et al. (Cheng).

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VII. GROUPING OF CLAIMS

For purposes of this Appeal, the Applicants present the following grouping of claims:

1. Claims 1-13 are a group, with the appeal as to the ground of rejection being based on claim 1.
2. Claims 14-17 are part of another group, with the appeal as to the ground of rejection being based on claim 14.
3. Claims 18-20 are part of another group, with the appeal as to the ground of rejection being based on claim 18.
4. Claim 21 is part of another group, with the appeal as to the ground of rejection being based on claim 21.
5. Claims 22-23 and 25-27 are part of another group, with the appeal as to the ground of rejection being based on claim 22.
6. Claims 28-30 are part of another group, with the appeal as to the ground of rejection being based on claim 28.

VIII. ARGUMENT

The recitations of Han, Hammond and Cheng do not render the invention of claims 1-23 and 25-30 unpatentable.

A brief summary of the Han reference may be helpful here. Han describes a device for performing a handoff between the cells of a mobile communication

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system (see Abstract, FIG. 1 and col. 1, lines 35-36). In particular, a mobile station that is in a call (111) transmits a handoff request message including a measured signal power value and information about a traveling direction thereof, when signal power from an adjacent base station (BS2) is higher than a predetermined threshold (see col. 3, lines 13-19). Upon detection of the handoff request, a service base station (BS1) examines traffic resources of the adjacent base station (BS2) through a base station controller (131) to determine whether there are sufficient spare channels (see col. 8, line 66 to col. 9, line 2). When it is determined that there are sufficient spare channels, the service base station (BS2) performs a handoff (see col. 9, lines 2-5). The handover is between the serving base station (BS1) and the adjacent base station (BS2) (see col. 4, lines 27-39). As taught by Han, these base stations belong to the same mobile communication system (see col. 1, lines 35-36). That is, Han does not describe a procedure for transferring a wireless device between a first communication system and a different second communication system.

It is well settled that in order for a claim to be anticipated under 35 U.S.C. § 102, each and every element of the claimed invention must be disclosed in a single prior art reference. Orthokinetics, Inc. v. Safety Travel Chairs, Inc., 806 F.2d 1565, 1574 (Fed. Cir. 1986). Whether the reference discloses every element of the invention, and also whether the reference and the claimed invention are the same,

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is to be determined by considering how persons of ordinary skill in the art interpret the reference. Scripps Clink & Research Fdm. v. Genentech. Inc., 927 F.2d 1565, 1576 (Fed. Cir. 1991).

Additionally, the best defense against hind-sight based obviousness analysis is the rigorous application of the requirement for a showing of a teaching, or motivation to combine the prior art references. Ecolochem v. Southern California Edison Co., 227 F.3d 1361, 1371 (Fed. Cir. 2000). "Combining prior art references without evidence of such a suggestion, teaching or motivation simply takes the inventor's disclosure as a blueprint for piecing together the prior art to defeat patentability--the essence of hindsight." Id. at 1371-1372.

Independent claims 1, 14, 22 and 28 include the feature that a registration sequence is initiated with a second wireless communication system in response to determining that the wireless device is detecting a triggering event. Also, claims 1 and 22 and dependent claim 16 include the feature that the registration sequence is aborted in response to determining that a speed or displacement of the wireless device does not exceed a second predetermined threshold.

It is well known that a handoff from one cell of a system to another cell of the same system is done without initiating a registration sequence with that system. As such, because Han is merely concerned with handover between cells of the same communications system, Han clearly does not disclose the concept of initiating a

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registration sequence and more specifically, initiating a registration sequence with a second wireless system or aborting the registration with the second wireless system, particularly based on speed or displacement measurements of the wireless device.

The Examiner has attempted to equate the intra-system handover process described in Han with switching between different network systems, as recited in the claims of the present invention. There are several reasons why this contention is inaccurate. In particular, as noted above, interpretation of the prior art reference must be done through the eyes of one of ordinary skill in the art. Han expressly notes that the communication system being described is a CDMA system (see col. 4, lines 48-50). Under the Third Generation Partnership Project 2 (3GPP2), an organization comprised of North American and Asian interests that sets global specifications for third generation telecommunications systems, descriptions of the registration of a handset and the handoff of a handset are provided.

For example, under Section 2.6.5.1 of the Upper Layer (Layer 3) Signaling Standard for CDMA2000 Spread Spectrum Systems, Release D, Version 2.0 ("Standard"), a copy of which is attached, the term registration is explained as a "process by which the mobile station notifies the base station of its location, status, identification, slot cycle and other characteristics. The mobile station informs the base station of its location and status so that the base station can efficiently page

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the mobile station when establishing a mobile station terminated call." (see page 2-487, lines 3-6). The registration procedures themselves are outlined in Section 2.6.5.5 of the Standard (see pages 2-498 – 2-510), a copy of which is attached.

In Section 2.6.6 of that same Standard, a copy of which is attached, it is noted that "[t]his section presents an overview and mobile station requirements for handoffs occurring while the mobile station is in the *Mobile Station Control on the Traffic Channel State . . .*" (see page 2-510, lines 8-10). Under Section 2.6.4, a copy of which is attached, in the Mobile Station Control on the Traffic Channel State, "the mobile station communicates with the base station using the Forward and Reverse Traffic Channels." (see page 2-340, lines 33-34). In Section 2.6.6.1.1, a copy of which is attached, several examples of handoff procedures are described, including hard and soft handoffs (see page 2-510, lines 13-31).

Clearly, individuals skilled in the area of mobile telecommunications have recognized a difference between registration and handoff procedures in view of promulgating standards for both of them. This is true for CDMA, as well as for other cellular standards, like GSM. Further, the handoff procedures of the Standard are described in terms of the mobile station already having established a session via the base station, which will not occur unless the mobile station has previously *registered* with the base station. As such, there is ample evidence that one of skill in the art would interpret the phrase "initiating a registration sequence

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with a second wireless communication system” as a process where a mobile unit first communicates with a second communication system that is different from the one with which it is currently communicating to begin operation in the second communication system. Moreover, in view of the above, one of skill in the art would also interpret the phrase “aborting the registration sequence” as a process of terminating the attempt to establish operations via the different network.

A careful review of Han shows that it is directed to and only concerns handoff procedures within a single CDMA communication system, as no reference is made to different communication networks anywhere within Han (see, e.g., FIG. 1; the Abstract; col. 3, lines 13-14; col. 3, lines 30-31; and col. 8, line 40 to col. 9, line 5). In fact, Han expressly describes both soft and hard handoffs, further solidifying its link with the above Standard (see col. 1, lines 19-33). As further evidence that Han is limited to handoff procedures within the same network, the mobile device (111) of Han is never described as a dual-mode device that contains different transceivers for different networks, as is done with the current invention. In view of the above, Applicants submit that one of skill in the art would not believe that Han reads on the invention as claimed.

Independent claim 18 recites the features that the mobile communication device includes at least two transceivers and the handover manager determines when to handover from the first wireless communication system to the second

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wireless communication system. Claim 18 also recites that the handover manager aborts a registration sequence with the second wireless communication system. As previously explained, Han does not show, describe or suggest such concepts, as Han is merely concerned with handoffs within a single CDMA wireless system. Thus, Applicants submit that Han does not show a handover manager that determines when to switch communications from a first wireless network to a different second wireless network and selectively aborts the process.

Applicants also submit that there is no suggestion or motivation to combine the GPRS and WLAN transceivers of Hammond with Han. Notably, Han only describes a handoff procedure within a single wireless CDMA system, and as such, one of skill in the art would find no reason to implement the two transceivers of Hammond with Han. In fact, Applicants contend that Han teaches away from such a combination. Specifically, Han explains that "an important role of a searcher is to acquire PN codes generated from the base stations in a cell where the mobile stations are located, and search a PN code generated from an adjacent base station to perform a handoff. In the present embodiment, estimation of the location and traveling direction of the mobile station is obtained as a by-product of searching PN codes of adjacent base stations when performing a handoff." (see col. 4, lines 40-47). As a result, for the invention of Han to work, the base stations must be within the same network, as the differences between base stations of separate

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networks would interfere with the estimation of the location and traveling direction of the mobile station. Indeed, synchronization is paramount in Han, as Han specifies that the PN generator is for distinguishing between base stations in a *synchronous* CDMA system (see col. 4, lines 48-50), something not present between different networks.

Independent claim 21 recites the feature that the mobile subscriber device determines when to handover from one wireless communication system to a second wireless communication system and that the handover manager aborts a registration sequence with the second wireless communication system. For reasons previously explained, Applicants submit that Han does not describe handover between first and second communication networks or the selective termination of a registration sequence with the second system.

Independent claim 21 also recites the feature that the mobile communication system includes at least one border cell of a WLAN communications system located at an egress point of a structure. As described in the specification of the current application, a border cell is a WLAN cell that includes an access point that transmits information to a mobile unit that identifies the WLAN cell as a border cell (see page 3, lines 18-22). That is, a mobile unit may rely on the actual identification of a border cell to determine that it is near an entry/exit point, as opposed to constantly monitoring the signal strength of a WLAN cell. Hammond simply does

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not show, describe or even suggest the concept of border cells, as understood by one of skill in the art.

Dependent claim 30 recites the feature that the triggering event is a detection of a wireless local area network border cell, and the border cell provides information to the wireless device that identifies the cell as a border cell. In view of the above, Applicants do not believe that Cheng describes such an element. In particular, the handoff trigger in Cheng is based on a signal level, not the identification of a border cell (see col. 3, lines 23-27 – “A handdown or a handoff of the mobile station is triggered after deriving the received power level of the control signal at the mobile station, and determining that the received power level is less than the receive power level.”)

Based on the discussion above, Applicants submit that the Han, Hammond and Cheng references simply do not show, describe or suggest, either individually or in combination with one another, the claimed invention. As such, Applicants believe that the rejections of independent claims 1, 14, 18, 21, 22 and 28 are improper and that these claims are patentable over the prior art. In addition, Applicants submit that the claims that depend from these independent claims are patentable over the prior art, both in view of their dependencies on the independent claims and their own independent patentability.

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Conclusion

For the claims to be unpatentable under § 102, each and every element of the claimed invention must be disclosed in a single prior art reference. Moreover, for claims to be unpatentable under § 103, there must be some suggestion or motivation to combine the prior art references, and the combination of references must show each and every element. Because every element of the claimed invention is not disclosed by the prior art and because there is no suggestion to combine the Han and Hammond references, Applicants contend that the claims on appeal are patentable.

For the reasons set forth above, and as is apparent from a review of the above-cited references, the claims on appeal present patentable subject matter such that reversal of the rejection is appropriate.

Respectfully submitted,

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May 25, 2006

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IX. CLAIMS APPENDIX

1. (previously presented) A method comprising:

determining that a wireless device operating in a first wireless communication system is detecting a triggering event;

initiating a registration sequence with a second wireless communication system in response to determining that the wireless device is detecting the triggering event;

conducting a current call or a subsequent call via the second wireless communication system in response to determining that a speed or displacement of the wireless device exceeds a first predetermined threshold; and

aborting the registration sequence in response to determining that a speed or displacement of the wireless device does not exceed a second predetermined threshold.
2. (previously presented) The method of claim 1, wherein the triggering event is a detection of a wireless local area network border cell or a detection of a degradation of signal quality.
3. (previously presented) The method of claim 1, wherein the first wireless communication system is a wireless local area network (WLAN) and the second

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wireless communication system is a wide area network (WAN).

4. (previously presented) The method of claim 3, wherein the wireless local area network (WLAN) uses a protocol of IEEE Standard 802.11 or Bluetooth.

5. (previously presented) The method of claim 3, wherein the wide area network (WAN) uses a protocol of code division multiple access (CDMA), time division multiple access (TDMA), global system for mobile communications (GSM) or integrated digital enhanced network (iDEN).

6. (previously presented) The method of claim 1, wherein the first wireless communication system is a wide area network (WAN) and the second wireless communication system is a wireless local area network (WLAN).

7. (previously presented) The method of claim 6, wherein the wireless local area network (WLAN) uses a protocol of IEEE Standard 802.11 or Bluetooth.

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8. (previously presented) The method of claim 6, wherein the wide area network (WAN) uses a protocol of code division multiple access (CDMA), time division multiple access (TDMA), global system for mobile communications (GSM) or integrated digital enhanced network (iDEN).
9. (previously presented) The method of claim 1, wherein the determining, initiating, conducting and aborting steps are performed in the wireless device, wherein the wireless device is a mobile subscriber unit.
10. (previously presented) The method of claim 1, wherein aborting the registration sequence comprises, if the registration sequence is complete, deregistering from the second wireless communication system in response to determining that a speed or displacement of the wireless device does not exceed the second predetermined threshold.
11. (previously presented) The method of claim 1, wherein the speed or displacement of the wireless device step is determined by movement detecting means of the wireless device.
12. (previously presented) The method of claim 11, wherein the movement

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detecting means comprises an accelerometer detecting means or a global positioning system means.

13. (original) The method of claim 12, wherein the accelerometer detecting means comprises at least three independent axes.

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14. (previously presented) A method comprising:
- determining that a wireless device operating in a first wireless communication system is detecting a triggering event;
- initiating a registration sequence with a second wireless communication system in response to determining that the wireless device is detecting a triggering event and measuring a speed or displacement of the wireless device exceeding a first predetermined threshold; and
- conducting current and subsequent calls via the second wireless communication system.
15. (previously presented) The method of claim 14, wherein the triggering event is a detection of a wireless local area network border cell or a detection of a degradation of signal quality.
16. (previously presented) The method of claim 14, further comprising:
- aborting the registration sequence in response to determining that a speed or displacement of the wireless device does not exceed a second predetermined threshold, wherein the determining, initiating, conducting and aborting steps are performed in the wireless device, wherein the wireless device is a mobile subscriber unit.

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17. (previously presented) The method of claim 14, further comprising:
- if the registration sequence is completed, deregistering from the second wireless communication system in response to determining that a speed or displacement of the wireless device does not exceed a second predetermined threshold.

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18. (previously presented) A mobile communication device comprising:
- at least two transceivers, each transceiver designed to operate on a separate wireless communications system, for transmitting and receiving wireless information;
 - a controller, communicatively coupled to each transceiver, for managing the operation of the mobile communication device;
 - a first wireless communications system stack, communicatively coupled to the controller, having instructions for communicating according to its respective protocol;
 - a second wireless communications system stack, communicatively coupled to the controller, having instructions for communicating according to its respective protocol;
 - a means for measuring speed or displacement of the wireless device, communicatively coupled to the controller; and
 - a handover manager, communicatively coupled to the controller, the first wireless communications system stack, the second wireless communications system stack, and the means for measuring speed or displacement of the wireless device, the handover manager for determining when to handover from the first wireless communication system to the second wireless communication system in response to determining that a speed or displacement of the device exceeds a first

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predetermined threshold, wherein the handover manager aborts a registration sequence with the second wireless communication system in response to determining that a speed or displacement of the wireless device does not exceed a second predetermined threshold.

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19. (previously presented) The device of claim 18, wherein the means for measuring speed or displacement of the device comprises an accelerometer detecting means or a global positioning system detecting means.

20. (previously presented) The device of claim 18, wherein the handover manager, if a registration sequence with the second wireless communication system is completed, deregisters the wireless device from the second wireless communication system in response to determining that a speed or displacement of the wireless device does not exceed the second predetermined threshold.

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21. (previously presented) A mobile communication system comprising:

at least one cell of a wireless local area network communications system, the at least one cell providing communication coverage within a structure having at least one egress point;

at least one coverage cell of a second communications system, overlapping the at least one cell of a wireless local area network, for providing communication coverage outside the structure;

at least one border cell of a wireless local area network communications system, the border cell located at the egress point of the structure, providing a transition area from the wireless local area network communications system and the second communications system; and

at least one mobile subscriber device, communicatively coupled with the at least one cell of the wireless local area network communications system, the at least one coverage cell of the second communications system, and the at least one border cell of a wireless local area network communications system, the at least one mobile subscriber device determining when to handover from one wireless communication system to the second wireless communication system in response to determining that a speed or displacement of the device exceeds a predetermined threshold, wherein the handover manager aborts a registration sequence with the second wireless communication system in response to determining that a speed or

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displacement of the wireless device does not exceed a second predetermined threshold.

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22. (previously presented) A computer readable medium comprising computer instructions for performing the steps of:

determining that a wireless device operating in a first wireless communication system is detecting a triggering event;

initiating a registration sequence with a second wireless communication system in response to determining that the wireless device is detecting the triggering event;

conducting current and subsequent calls via the second wireless communication system in response to determining that a speed or displacement of the wireless device exceeds a first predetermined threshold; and

aborting the registration sequence in response to determining that a speed or displacement of the wireless device does not exceed a second predetermined threshold.

23. (previously presented) The computer readable medium of claim 22, wherein the triggering event is a detection of a wireless local area network border cell or a detection of a degradation of signal quality.

24. (canceled)

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25. (previously presented) The computer readable medium of claim 22, wherein aborting the registration sequence comprises, if the registration sequence is complete, deregistering from the second wireless communication system in response to determining that a speed or displacement of the wireless device does not exceed the second predetermined threshold.

26. (previously presented) The computer readable medium of claim 22, wherein the speed or displacement of the wireless device is determined by movement detecting means of the wireless device.

27. (previously presented) The computer readable medium of claim 26, wherein the movement detecting means comprises an accelerometer detecting means or a global positioning system means.

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28. (previously presented) A method to improve battery life of a wireless device, comprising:

conducting a current call via a first wireless communication system;

detecting a triggering event at the wireless device;

measuring a speed or a displacement of the wireless device;

initiating, while conducting the current call via the first wireless communication system, a registration sequence with a second wireless communication system in response to detecting a triggering event at the wireless device;

conducting the current call or a subsequent calls via the second wireless communication system in response to determining that the speed or the displacement of the wireless device exceeds a first predetermined threshold; and

conducting the current call or a subsequent call via the first wireless communication system in response to determining that the speed or the displacement of the wireless device does not exceed the first predetermined threshold.

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29. (previously presented) The method of claim 28, further comprising:
determining again a speed or a displacement of the wireless device; and
deregistering from the second wireless communication system in response
to determining that the again determined speed or displacement of the wireless
device does not exceed a second predetermined threshold.
30. (previously presented) The method of claim 28, wherein the triggering event
is a detection of a wireless local area network border cell, the border cell providing
information to the wireless device that identifies the cell as a border cell.

3GPP2 C.S0005-D

Version 2.0

Date: September, 2005



**3RD GENERATION
PARTNERSHIP
PROJECT 2
"3GPP2"**

Upper Layer (Layer 3) Signaling Standard for cdma2000 Spread Spectrum Systems

Release D

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C.S0005-D v2.0

1 2.6.5 Registration

2 2.6.5.1 Forms of Registration

3 Registration is the process by which the mobile station notifies the base station of its
4 location, status, identification, slot cycle, and other characteristics. The mobile station
5 informs the base station of its location and status so that the base station can efficiently
6 page the mobile station when establishing a mobile station terminated call. For operation
7 in the slotted mode, the mobile station supplies the SLOT_CYCLE_INDEX parameter so
8 that the base station can determine which slots the mobile station is monitoring. The
9 mobile station supplies the station class mark and the protocol revision number so that
10 the base station knows the capabilities of the mobile station.

11 The CDMA system supports 12 different forms of registration:

- 12 1. Power-up registration. The mobile station registers when it powers on, switches
13 from using a different frequency block designator, switches from using a different
14 band class, switches from using an alternative operating mode, upon the insertion
15 of an R-UIM into a powered-on ME, or switches from using the analog system.
- 16 2. Power-down registration. The mobile station registers when it powers off if
17 previously registered in the current serving system.
- 18 3. Timer-based registration. The mobile station registers when a timer expires.
- 19 4. Distance-based registration. The mobile station registers when the distance
20 between the current base station and the base station in which it last registered
21 exceeds a threshold.
- 22 5. Zone-based registration. The mobile station registers when it enters a new zone.
- 23 6. Parameter-change registration. The mobile station registers when certain of its
24 stored parameters change or when it enters a new system.
- 25 7. Ordered registration. The mobile station registers when the base station requests
26 it.
- 27 8. Implicit registration. When a mobile station successfully sends an *Origination*
28 *Message*, *Reconnect Message*, or *Page Response Message*, the base station can
29 infer the mobile station's location. This is considered an implicit registration.
- 30 9. Traffic Channel registration. Whenever the base station has registration
31 information for a mobile station that has been assigned to a Traffic Channel, the
32 base station can notify the mobile station that it is registered.
- 33 10. User Zone Registration. The mobile station registers when it selects an active User
34 Zone (see 2.6.9.1.2).
- 35 11. Encryption/Message Integrity re-sync required registration. The mobile station
36 registers when extended encryption is turned on and the mobile station determines
37 that it can not decrypt any messages from the base station (see 2.3.12.4.1.3) or the
38 mobile station registers when message integrity is supported and the mobile station
39 determines that it can not validate the MACI of any messages from the base station.

C.S0005-D v2.0

- 1 • The mobile station is a foreign SID roamer and both FOR_SID_REG_s and
2 MOB_TERM_FOR_SID_p are equal to '1'; otherwise the mobile station shall set
3 REG_ENABLED_s to NO.
- 4 The mobile station performs autonomous registrations if REG_ENABLED_s is YES.
- 5 2.6.5.4 Registration Timers and Indicators
- 6 The mobile station shall provide the following registration timers:
- 7 • Power-up/Initialization timer (see 2.6.5.1.1).
- 8 • Timer-based registration timer (see 2.6.5.1.3).
- 9 • Zone list entry timers (see 2.6.5.1.5).
- 10 • SID/NID list entry timers (see 2.6.5.1.5).
- 11 • BCMC frequency registration timer (see 2.6.13).
- 12 • BCMC registration required timer (see 2.6.13).
- 13 The mobile station shall provide a means of enabling and disabling each timer. When a
14 timer is disabled, it shall not be considered expired. A timer that has been enabled is
15 referred to as active.
- 16 2.6.5.5 Registration Procedures
- 17 2.6.5.5.1 Actions in the Mobile Station Initialization State
- 18 2.6.5.5.1.1 Power-Up or Change to a Different Operating Mode, Band Class, Serving
19 System, Frequency Block Designator, or R-UIM Insertion.
- 20 Upon power-up, the mobile station shall perform the following actions:
- 21 • Delete all entries of ZONE_LIST_s.
- 22 • If ZONE_LIST_{s-p} contains an entry, copy the entry to ZONE_LIST_s and disable the
23 corresponding entry timer.
- 24 • Delete all entries of SID_NID_LIST_s.
- 25 • If SID_NID_LIST_{s-p} contains an entry, copy the entry to SID_NID_LIST_s and disable
26 the corresponding entry timer.
- 27 • Set the registered flag (REGISTERED_s) to NO.
- 28 • Set timer-based registration enable status (COUNTER_ENABLED_s) to NO.
- 29 • Set autonomous registration enable status (REG_ENABLED_s) to NO.
- 30 • Set RETURN_CAUSE_s to '0000'.
- 31 • Set KEY_ID, LAST_2G_KEY_ID_s, and LAST_3G_KEY_ID_s to '00'.
- 32 • Set ENC_KEY[i] and INT_KEY[i] to NULL, where i ranges from '00' to '11'.
- 33 • Set D_SIG_ENCRYPT_MODE_s and C_SIG_ENCRYPT_MODE_s to '000'.

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- 1 • Set RESTORE_KEYS to '0'.
 - 2 • If the UIM contains IK and CK, the mobile station shall set KEY_ID to '10',
 - 3 RESTORE_KEYS to '1', INT_KEY[KEY_ID] to IK, ENC_KEY[KEY_ID] to CK,
 - 4 TX_EXT_SSEQ[.][KEY_ID] and TX_EXT_SSEQ[.][KEY_ID] to any 24-bit value
 - 5 multiplied by 256.
- 6 If any of the following conditions is true: Upon switching
- 7 • BYPASS_REG_IND_s is equal to '00' and the mobile station has switched from using
 - 8 CDMA from using CDMA in a different band class,
 - 9 - in a different band class, or
 - 10 - in a different serving system in a band class that supports multiple serving
 - 11 systems (e.g., Band Class 0), or
 - 12 - in a different frequency block designator in a band class that supports
 - 13 frequency block designator allocations (e.g. Band Class 1)
 - 14 • BYPASS_REG_IND_s is equal to '01' and, for a reason other than processing the
 - 15 Extended CDMA Channel List Message, the mobile station has switched from using
 - 16 CDMA from using CDMA in a different serving system in a band class that supports
 - 17 multiple serving systems (e.g., Band Class 0),
 - 18 - in a different band class, or
 - 19 - in a different serving system in a band class that supports multiple serving
 - 20 systems (e.g., Band Class 0), or
 - 21 - in a different frequency block designator in a band class that supports
 - 22 frequency block designator allocations (e.g. Band Class 1)
 - 23 • BYPASS_REG_IND_s is equal to '10', SID_s is different than REG_SID_s and the mobile
 - 24 station has switched from using CDMA from using CDMA in a different frequency
 - 25 block in a band class that supports frequency block allocations (e.g. Band Class 1),
 - 26 or
 - 27 - in a different band class, or
 - 28 - in a different serving system in a band class that supports multiple serving
 - 29 systems (e.g., Band Class 0), or
 - 30 - in a different frequency block designator in a band class that supports
 - 31 frequency block designator allocations (e.g. Band Class 1)
 - 32 • the mobile station has switched from using the 800 MHz analog system,
- 33 the mobile station shall perform the following actions:
- 34 • Set timer-based registration enable status (COUNTER_ENABLED_s) to NO.
 - 35 • Set autonomous registration enable status (REG_ENABLED_s) to NO.
 - 36 • Set RETURN_CAUSE_s to '0000'.
 - 37 • Set the registered flag (REGISTERED_s) to NO.

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- 1 • Set KEY_ID, LAST_2G_KEY_ID_s, and LAST_3G_KEY_ID_s to '00'.
- 2 • Set ENC_KEY[i] and INT_KEY[i] to NULL, where i ranges from '00' to '11'.
- 3 • Set RESTORE_KEYS to '0'.
- 4 • If the UIM contains IK and CK, the mobile station shall set KEY_ID to '10',
- 5 RESTORE_KEYS to '1', INT_KEY[KEY_ID] to IK, ENC_KEY[KEY_ID] to CK,
- 6 TX_EXT_SSEQ[i][KEY_ID] and TX_EXT_SSEQ[j][KEY_ID] to any 24-bit value
- 7 multiplied by 256.

8 2.6.5.5.1.2 Timer Maintenance

9 While in the *Mobile Station Initialization State*, the mobile station shall update all active
 10 registration timers (see 2.6.5.4). If any timer expires while in this state, the mobile station
 11 shall preserve the expiration status so that further action can be taken in the *Mobile*
 12 *Station Idle State*.

13 2.6.5.5.1.3 Entering the Mobile Station Idle State

14 Before entering the *Mobile Station Idle State* from the *Mobile Station Initialization State*, the
 15 mobile station shall perform the following action:

- 16 • If REGISTERED_s is equal to NO, enable the power-up/initialization timer with an
- 17 expiration time of T_{57m} seconds (see 2.6.5.1.1) only when the mobile station is
- 18 entering this state with a power-up indication.

19 2.6.5.5.2 Actions in the Mobile Station Idle State

20 Requirements in this section and its subsections apply only when the mobile station is in
 21 the *Mobile Station Idle State*.

22 2.6.5.5.2.1 Idle Registration Procedures

23 These procedures are performed whenever the mobile station is in the *Mobile Station Idle*
 24 *State* (see 2.6.2.1.3).

25 While in the *Mobile Station Idle State*, the mobile station shall update all active registration
 26 timers (see 2.6.5.4).

27 If the power-up/initialization timer has expired or is disabled, the mobile station shall
 28 perform the following actions in the order given. If any action necessitates a registration,
 29 the mobile station shall enter the *Update Overhead Information Substate* of the *System*
 30 *Access State* (see 2.6.3) with a registration indication.

- 31 1. The timer-based registration timer shall be enabled (COUNTER_ENABLED_s = YES)
- 32 and the timer count (REC_COUNT_s) shall be set to a pseudorandom number as
- 33 specified in 2.6.5.1.3, if the following conditions are met:
- 34 a. COUNTER_ENABLED_s is equal to NO; and
- 35 b. The stored configuration parameters are current (see 2.6.2.2); and
- 36 c. REC_ENABLED_s is equal to YES; and

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- 1 d. REG_PRD_s is not equal to zero.
- 2 2. If any zone list entry timer (see 2.6.5.1.5) has expired, the mobile station shall
- 3 delete the corresponding entry from ZONE_LIST_s.
- 4 3. If any SID/NID list entry timer (see 2.6.5.1.5) has expired, the mobile station shall
- 5 delete the corresponding entry from SID_NID_LIST_s.
- 6 4. The mobile station shall perform power-up registration, as specified in 2.6.5.1.1, if
- 7 all the following conditions are met:
- 8 a. POWER_UP_REG_s is equal to '1'; and
- 9 b. The stored configuration parameters are current (see 2.6.2.2); and
- 10 c. REGISTERED_s is equal to NO, and
- 11 d. REG_ENABLED_s is equal to YES.
- 12 5. The mobile station shall perform parameter-change registration (see 2.6.5.1.6) if all
- 13 the following conditions are met:
- 14 a. PARAMETER_REG_s is equal to '1'; and
- 15 b. The stored configuration parameters are current (see 2.6.2.2); and
- 16 c. There is no entry of SID_NID_LIST_s whose SID and NID fields match the stored
- 17 SID_s and NID_s.
- 18 6. The mobile station shall perform timer-based registration (see 2.6.5.1.3) if all the
- 19 following conditions are met:
- 20 a. COUNTER_ENABLED_s is equal to YES; and
- 21 b. The stored configuration parameters are current (see 2.6.2.2); and
- 22 c. REC_ENABLED_s is equal to YES; and
- 23 d. REG_COUNT_s is greater than or equal to REG_COUNT_MAX_s.
- 24 7. The mobile station shall perform distance-based registration (see 2.6.5.1.4) if all the
- 25 following conditions are met:
- 26 a. REC_DIST_s is not equal to zero; and
- 27 b. The stored configuration parameters are current (see 2.6.2.2); and
- 28 c. REG_ENABLED_s is equal to YES; and
- 29 d. The current base station's distance from the base station in which the mobile
- 30 station last registered (see 2.6.5.1.4) is greater than or equal to
- 31 REC_DIST_REG_{s-p}.
- 32 8. The mobile station shall perform zone-based registration (see 2.6.5.1.5) if all the
- 33 following conditions are met:
- 34 a. TOTAL_ZONES_s is not equal to zero; and
- 35 b. The stored configuration parameters are current (see 2.6.2.2); and

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- 1 c. REG_ENABLED_s is equal to YES; and
- 2 d. There is no entry of ZONE_LIST_s whose SID, NID and REG_ZONE fields match
- 3 the stored SID_s, NID_s and REC_ZONE_s.
- 4 9. The mobile station shall perform User Zone registration (see 2.6.2.5.1.10) if it
- 5 selects an active User Zone (see 2.6.9.1.2).
- 6 10. The mobile station shall perform encryption/message integrity re-sync required
- 7 registration (see 2.6.5.1.11) if all the following conditions are met:
- 8 a. REG_SECURITY_RESYNC is equal to YES or REGISTER_IN_IDLE_s is equal to
- 9 '1'; and
- 10 b. None of the above registrations have been performed since the last entering of
- 11 the *Mobile Station Idle State*.
- 12 2.6.5.5.2.2 Processing the Registration Fields of the System Parameters Message and
- 13 ANSI-41 System Parameters Message
- 14 When the mobile station processes the *System Parameters Message* or *ANSI-41 System*
- 15 *Parameters Message*, it shall perform the following actions:
- 16 1. If REG_PRD_s is equal to zero, the mobile station shall set COUNTER_ENABLED_s to
- 17 NO.
- 18 2. If REC_PRD_s is not equal to zero, the mobile station shall set REG_COUNT_MAX_s
- 19 as specified in 2.6.5.1.3.
- 20 3. The mobile station shall update its roaming status and set REG_ENABLED_s as
- 21 specified in 2.6.5.3.
- 22 4. If ZONE_LIST_s contains more than TOTAL_ZONES_s entries, the mobile station shall
- 23 delete the excess entries according to the rules specified in 2.6.5.1.5.
- 24 5. If MULT_SIDS_s is equal to '0' and SID_NID_LIST contains entries with different
- 25 SIDs, delete the excess entries according to the rules specified in 2.6.5.1.5.
- 26 6. If MULT_NIDS_s is equal to '0' and SID_NID_LIST contains more than one entry for
- 27 any SID, delete the excess entries according to the rules specified in 2.6.5.1.5.
- 28 2.6.5.5.2.3 Ordered Registration
- 29 Ordered registration is performed after receiving a *Registration Request Order* while in the
- 30 *Mobile Station Order and Message Processing Operation* (see 2.6.2.4).
- 31 The mobile station shall enter the *Update Overhead Information Substate* of the *System*
- 32 *Access State* with a registration indication within T_{33m} seconds after the *Registration*
- 33 *Request Order* is received.
- 34 2.6.5.5.2.4 Power Off
- 35 These procedures are performed when the mobile station is directed by the user to power
- 36 off.

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1 The mobile station shall perform the following actions:

- 2 • If an entry of ZONE_LIST_s does not have an active timer, copy that entry to
3 ZONE_LIST_{s-p}; otherwise, delete any entry in ZONE_LIST_{s-p}.
- 4 • If an entry of SID_NID_LIST_s does not have an active timer, copy that entry to
5 SID_NID_LIST_{s-p}; otherwise, delete any entry in SID_NID_LIST_{s-p}.

6 The mobile station shall perform power-down registration (see 2.6.5.1.2) by entering the
7 System Access State with a registration indication within T_{33m} seconds after the user
8 directs the mobile station to power off, if all the following conditions are true:

- 9 • REG_ENABLED_s equals YES; and
- 10 • POWER_DOWN_REG_s equals '1'; and
- 11 • There is an entry of SID_NID_LIST_s for which the SID and NID fields are equal to
12 SID_s and NID_s; and
- 13 • The power-up/initialization timer (see 2.6.5.1.1) is disabled or has expired.

14 2.6.5.5.2.5 Full-TMSI Timer Expiration

15 When the mobile station sets all the bits of TMSI_CODE_{s-p} to '1' upon expiration of the
16 full-TMSI timer (see 2.6.2), the mobile station shall delete all entries from SID_NID_LIST_s
17 and ZONE_LIST_s.

18 2.6.5.5.3 Actions in the System Access State

19 Requirements in this section and its subsections apply only when the mobile station is in
20 the System Access State.

21 2.6.5.5.3.1 Successful Access, Registration, or Implicit Registration

22 These procedures shall be performed after the mobile station receives confirmation of
23 delivery of a *Registration Message*, *Origination Message*, *Reconnect Message*, or *Page*
24 *Response Message* sent on the r-csch (see 2.6.3.1.2).

- 25 • Disable the power-up/initialization timer (see 2.6.5.1.1).
- 26 • If the mobile station supports the 800 MHz analog mode, set the First-Idle ID
27 status to enabled (see[6]).
- 28 • Set DIGITAL_REG_{s-p} to '00000001'.
- 29 • Set REG_COUNT_s to zero.
- 30 • Set REGISTERED_s to YES.
- 31 • If an explicit or implicit registration was sent, set SLOT_CYCLE_INDEX_REG to the
32 slot cycle index the mobile station included in the message.
- 33 • If BYPASS REG_IND_s is equal to '00', the mobile station shall perform the
34 following:
- 35 - Delete all entries from ZONE_LIST_s belonging to a different band class (see
36 [245]) than CDMABAND_s.

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- 1 - If CDMABAND_s contains multiple serving systems, delete all entries from
- 2 ZONE_LIST_s that have a SID from a different serving system than SERVSYS_s.
- 3 - If CDMABAND_s contains multiple frequency block designators, delete all entries
- 4 from ZONE_LIST_s belonging to a different frequency block designator (see [45])
- 5 than the frequency block designator associated with REG_SID_s.
- 6 ~~- If CDMABAND_s = '00000' or CDMABAND_s = '00011', delete all entries from~~
- 7 ~~ZONE_LIST_s that have a SID from a different serving system than SERVSYS_s.~~
- 8 ~~- If CDMABAND_s = '00001', CDMABAND_s = '00010', CDMABAND_s = '00100',~~
- 9 ~~CDMABAND_s = '00101', CDMABAND_s = '00111', or CDMABAND_s = '01010', delete~~
- 10 ~~all entries from ZONE_LIST_s belonging to a different frequency block (see [2]) than~~
- 11 ~~the frequency block associated with REG_SID_s.~~
- 12 • Add REG_REC_ZONE_s, REG_SID_s, and REG_NID_s to ZONE_LIST_s if not already in
- 13 the list. If required, include the band class identifier and block identifier for the
- 14 current band and frequency block designator as specified in 2.6.5.1.5.
- 15 • Disable the zone list entry timer for the entry of ZONE_LIST_s containing
- 16 REG_REC_ZONE_s, REG_SID_s, and REG_NID_s. For any other entry of ZONE_LIST_s
- 17 whose entry timer is not active, enable the entry timer with the duration specified
- 18 by REG_ZONE_TIMER_s (see 2.6.5.1.5).
- 19 • If ZONE_LIST_s contains more than TOTAL_ZONES_s entries, delete the excess
- 20 entries according to the rules specified in 2.6.5.1.5.
- 21 • If BYPASS_REG_IND_s is equal to '00', the mobile station shall perform the
- 22 following:
- 23 - Delete all entries from SID_NID_LIST_s belonging to a different band class (see
- 24 [245]) than CDMABAND_s.
- 25 - If CDMABAND_s contains multiple serving systems, delete all entries from
- 26 SID_NID_LIST_s that have a SID from a different serving system than SERVSYS_s.
- 27 - If CDMABAND_s contains multiple frequency block designators, delete all entries
- 28 from SID_NID_LIST_s belonging to a different frequency block designator (see
- 29 [45]) than the frequency block designator associated with REG_SID_s.
- 30 ~~- If CDMABAND_s = '00000' or CDMABAND_s = '00011', delete all entries from~~
- 31 ~~SID_NID_LIST_s that have a SID from a different serving system than SERVSYS_s.~~
- 32 ~~- If CDMABAND_s = '00001', CDMABAND_s = '00010', CDMABAND_s = '00100',~~
- 33 ~~CDMABAND_s = '00101', CDMABAND_s = '00111', or CDMABAND_s = '01010', delete~~
- 34 ~~all entries from SID_NID_LIST_s belonging to a different frequency block (see [2])~~
- 35 ~~than the frequency block associated with REG_SID_s.~~
- 36 • Add REG_SID_s and REG_NID_s to SID_NID_LIST_s if not already in the list. If
- 37 required, include the band class identifier and block identifier for the current band
- 38 and frequency block designator as specified in 2.6.5.1.5.

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- 1 • Disable the SID/NID list entry timer for the entry of SID_NID_LIST_s containing
- 2 REG_SID_s, and REG_NID_s. For any other entry of SID_NID_LIST_s whose entry
- 3 timer is not active, enable the entry timer with the duration specified in 2.6.5.1.5.
- 4 • If SID_NID_LIST_s contains more than N_{10m} entries, delete the excess entries
- 5 according to the rules specified in 2.6.5.1.5.
- 6 • If MULT_SIDS_s is equal to '0' and SID_NID_LIST contains entries with different
- 7 REG_SID_s, delete the excess entries according to the rules specified in 2.6.5.1.5.
- 8 • If MULT_NIDS_s is equal to '0' and SID_NID_LIST contains more than one entry for
- 9 any SID, delete the excess entries according to the rules specified in 2.6.5.1.5.
- 10 • Set the stored location of last registration (BASE_LAT_REG_{s-p} and BASE_LONG-
- 11 _REG_{s-p}) to the current base station's location (BASE_LAT_s and BASE_LONG_s).
- 12 Set the stored registration distance (REG_DIST_REG_{s-p}) to the current base
- 13 station's registration distance (REG_DIST_s).
- 14 • Set REG_SECURITY_RESYNC to NO.
- 15 • Set REGISTER_IN_IDLE_s to '0'.
- 16 ~~• If MSC_INTEGRITY_SUP_s is equal to '1', the mobile station shall set the key set up~~
- 17 ~~timer for T_{75m}.~~
- 18 These procedures shall be performed after the mobile station receives confirmation of
- 19 delivery of any other message:
- 20 • If the mobile station supports the 800 MHz analog mode, set the First-Idle ID
- 21 status to enabled (see [6]).
- 22 • Set DIGITAL_REG_{s-p} to '00000001'.
- 23 • If BYPASS REG_IND_s is equal to '00', the mobile station shall perform the
- 24 following:
- 25 – Delete all entries from ZONE_LIST_s belonging to a different band class (see
- 26 [245]) than CDMABAND_s.
- 27 – If CDMABAND_s contains multiple serving systems, delete from ZONE_LIST_s all
- 28 entries from ZONE_LIST_s that have a SID from a different serving system than
- 29 SERVSYS_s.
- 30 – If CDMABAND_s contains multiple frequency block designators, delete all entries
- 31 from ZONE_LIST_s belonging to a different frequency block designator (see [45])
- 32 than the frequency block designator associated with SID_s.
- 33 ~~• If CDMABAND_s → '00000' or CDMABAND_s → '00011', delete from ZONE_LIST_s all~~
- 34 ~~entries from ZONE_LIST_s that have a SID from a different serving system than~~
- 35 ~~SERVSYS_s.~~
- 36 ~~• If CDMABAND_s → '00001', CDMABAND_s → '00010', CDMABAND_s → '00100',~~
- 37 ~~CDMABAND_s → '00101', CDMABAND_s → '00111', or CDMABAND_s → '01010', delete~~
- 38 ~~all entries from ZONE_LIST_s belonging to a different frequency block (see [2]) than~~
- 39 ~~the frequency block associated with SID_s.~~

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- 1 • For any entry of ZONE_LIST_s not matching REG_ZONE_s, SID_s, and NID_s and not
- 2 having an active entry timer, enable the entry timer with the duration specified by
- 3 ZONE_TIMER_s (see 2.6.5.1.5).
- 4 • If BYPASS REG IND_s is equal to '00', the mobile station shall perform the
- 5 following:
- 6 – Delete all entries from SID_NID_LIST_s belonging to a different band class (see
- 7 [245]) than CDMABAND_s.
- 8 – If CDMABAND_s contains multiple serving systems, delete from SID_NID_LIST_s
- 9 all entries from SID_NID_LIST_s that have a SID from a different serving system
- 10 than SERVSYS_s.
- 11 – If CDMABAND_s contains multiple frequency block designators, delete all entries
- 12 from SID_NID_LIST_s belonging to a different frequency block designator (see
- 13 [45]) than the frequency block designator associated with SID_s.
- 14 – If CDMABAND_s = '00000' or CDMABAND_s = '00011', delete from SID_NID_LIST_s all
- 15 entries from SID_NID_LIST_s that have a SID from a different serving system than
- 16 SERVSYS_s.
- 17 – If CDMABAND_s = '00001', CDMABAND_s = '00010', CDMABAND_s = '00100',
- 18 CDMABAND_s = '00101', CDMABAND_s = '00111', or CDMABAND_s = '01010', delete
- 19 all entries from SID_NID_LIST_s belonging to a different frequency block (see [2])
- 20 than the frequency block associated with SID_s.
- 21 • For any entry of SID_NID_LIST_s not matching SID_s and NID_s and not having an
- 22 active entry timer, enable the entry timer with the duration specified by
- 23 ZONE_TIMER_s (see 2.6.5.1.5).

24 2.6.5.5.3.2 Unsuccessful Access

25 These procedures are performed when the mobile station declares an access attempt

26 failure when in the System Access State (see 2.6.3).

27 The mobile station shall perform the following actions:

- 28 • If the mobile station supports the 800 MHz analog mode, set the First-Idlc ID
- 29 status to enabled (see [6]).
- 30 • Set DIGITAL_REG_{s-p} to '00000001'.
- 31 • If an explicit or implicit registration was sent, set SLOT_CYCLE_INDEX_REG to
- 32 min(SLOT_CYCLE_INDEX_REG, slot cycle index the mobile station included in the
- 33 message).
- 34 • If BYPASS REG IND_s is equal to '00', the mobile station shall perform the
- 35 following:
- 36 – Delete all entries from ZONE_LIST_s belonging to a different band class (see
- 37 [245]) than CDMABAND_s.

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- 1 - If CDMABAND_s contains multiple serving systems, delete from ZONE_LIST_s all
- 2 entries from ZONE_LIST_s that have a SID from a different serving system than
- 3 SERVSYS_s.
- 4 - If CDMABAND_s contains multiple frequency block designators, delete all entries
- 5 from ZONE_LIST_s belonging to a different frequency block designator (see [45])
- 6 than the frequency block designator associated with SID_s.
- 7 ~~• If CDMABAND_s = '00000' or CDMABAND_s = '00011', delete from ZONE_LIST_s all~~
- 8 ~~entries from ZONE_LIST_s that have a SID from a different serving system than~~
- 9 ~~SERVSYS_s.~~
- 10 ~~• If CDMABAND_s = '00001', CDMABAND_s = '00010', CDMABAND_s = '00100',~~
- 11 ~~CDMABAND_s = '00101', CDMABAND_s = '00111', or CDMABAND_s = '01010', delete~~
- 12 ~~all entries from ZONE_LIST_s belonging to a different frequency block (see [2]) than~~
- 13 ~~the frequency block associated with SID_s.~~
- 14 • For any entry of ZONE_LIST_s not matching REG_ZONE_s, SID_s, and NID_s and not
- 15 having an active entry timer, enable the entry timer with the duration specified by
- 16 ZONE_TIMER_s (see 2.6.5.1.5).
- 17 • If BYPASS_REC_IND_s is equal to '00', the mobile station shall perform the
- 18 following:
- 19 - Delete all entries from SID_NID_LIST_s belonging to a different band class (see
- 20 [245]) than CDMABAND_s.
- 21 - If CDMABAND_s contains multiple serving systems, delete from SID_NID_LIST_s
- 22 all entries from SID_NID_LIST_s that have a SID from a different serving system
- 23 than SERVSYS_s.
- 24 - If CDMABAND_s contains multiple frequency block designators, delete all entries
- 25 from SID_NID_LIST_s belonging to a different frequency block designator (see
- 26 [45]) than the frequency block designator associated with SID_s.
- 27 ~~• If CDMABAND_s = '00000' or CDMABAND_s = '00011', delete from SID_NID_LIST_s all~~
- 28 ~~entries from SID_NID_LIST_s that have a SID from a different serving system than~~
- 29 ~~SERVSYS_s.~~
- 30 ~~• If CDMABAND_s = '00001', CDMABAND_s = '00010', CDMABAND_s = '00100',~~
- 31 ~~CDMABAND_s = '00101', CDMABAND_s = '00111', or CDMABAND_s = '01010', delete~~
- 32 ~~all entries from SID_NID_LIST_s belonging to a different frequency block (see [2])~~
- 33 ~~than the frequency block associated with SID_s.~~
- 34 • For any entry of SID_NID_LIST_s not matching SID_s and NID_s and not having an
- 35 active entry timer, enable the entry timer with the duration specified by
- 36 ZONE_TIMER_s (see 2.6.5.1.5).

37 2.6.5.5.3.3 Power Off

38 These procedures are performed when the mobile station is directed by the user to power
39 off.

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1 The mobile station shall perform the following actions:

- 2 • If an entry of ZONE_LIST_s does not have an active timer, copy that entry to
3 ZONE_LIST_{s-p}; otherwise, delete any entry in ZONE_LIST_{s-p}.
4 • If an entry of SID_NID_LIST_s does not have an active timer, copy that entry to
5 SID_NID_LIST_{s-p}; otherwise, delete any entry in SID_NID_LIST_{s-p}.

6 2.6.5.5.4 Actions in the Mobile Station Control on the Traffic Channel State

7 Requirements in this section and its subsections apply only when the mobile station is in
8 the *Mobile Station Control on the Traffic Channel State*.

9 2.6.5.5.4.1 Traffic Channel Initialization

10 Upon entering the *Traffic Channel Initialization Substate* of the *Mobile Station Control on the*
11 *Traffic Channel State*, the mobile station shall set COUNTER_ENABLED_s to NO, shall set
12 TBR_RAND_SUPPR_ENABLE_s to '0', and shall set TBR_RAND_WINDOW_s to '11'.

13 2.6.5.5.4.2 Timer Maintenance

14 While in the *Mobile Station Control on the Traffic Channel State*, the mobile station shall
15 update all active registration timers.

16 If a zone list entry timer expires, the mobile station shall delete the corresponding entry
17 from ZONE_LIST_s. If a SID/NID list entry timer expires, the mobile station shall delete the
18 corresponding entry from SID_NID_LIST_s.

19 2.6.5.5.4.3 Processing the Mobile Station Registered Message

20 The mobile station receives the *Mobile Station Registered Message* on the Forward Traffic
21 Channel when the mobile station is considered registered for the base station whose
22 location and other parameters are included in the message.

23 The mobile station shall store the following parameters:

- 24 • System identification (SID_s = SID_r)
25 • Network identification (NID_s = NID_r)
26 • Registration zone (REG_ZONE_s = REG_ZONE_r)
27 • Number of registration zones to be retained (TOTAL_ZONES_s = TOTAL_ZONES_r)
28 • Zone timer length (ZONE_TIMER_s = ZONE_TIMER_r)
29 • Multiple SID storage indicator (MULT_SIDS_s = MULT_SIDS_r)
30 • Multiple NID storage indicator (MULT_NIDS_s = MULT_NIDS_r)
31 • Base station latitude (BASE_LAT_s = BASE_LAT_r)
32 • Base station longitude (BASE_LONG_s = BASE_LONG_r)
33 • Registration distance (REG_DIST_s = REG_DIST_r)

34 The mobile station shall perform the following actions:

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- 1 • If the mobile station supports the 800 MHz analog mode, set the First-Idle ID
- 2 status to enabled (see [6]).
- 3 • Set DIGITAL_REG_{s-p} to '00000001'.
- 4 • Add REG_ZONE_s, SID_s, and NID_s to ZONE_LIST_s if not already in the list. If
- 5 required, include the band class identifier and block identifier for the current band
- 6 and frequency block designator as specified in 2.6.5.1.5.
- 7 • If BYPASS_REG_IND_s is equal to '00', delete all entries from ZONE_LIST_s
- 8 belonging to a different band class (see [245]) than CDMABAND_s.
- 9 • Disable the zone list entry timer for the entry of ZONE_LIST_s containing
- 10 REG_ZONE_s, SID_s, and NID_s. For any other entry of ZONE_LIST_s whose entry
- 11 timer is not active, enable the entry timer with the duration specified by
- 12 ZONE_TIMER_s (see 2.6.5.1.5).
- 13 • If ZONE_LIST_s contains more than TOTAL_ZONES_s entries, delete the excess
- 14 entries according to the rules specified in 2.6.5.1.5.
- 15 • If BYPASS_REG_IND_s is equal to '00', delete all entries from SID_NID_LIST_s
- 16 belonging to a different band class (see [245]) than CDMABAND_s.
- 17 • Add SID_s and NID_s to SID_NID_LIST_s if not already in the list. If required, include
- 18 the band class identifier and block identifier for the current band and frequency
- 19 block designator as specified in 2.6.5.1.5.
- 20 • Disable the SID/NID list entry timer for the entry of SID_NID_LIST_s containing
- 21 SID_s, and NID_s. For any other entry of SID_NID_LIST_s whose entry timer is not
- 22 active, enable the entry timer with the duration specified in 2.6.5.1.5.
- 23 • If SID_NID_LIST_s contains more than N_{10m} entries, delete the excess entries
- 24 according to the rules specified in 2.6.5.1.5.
- 25 • If MULT_SIDS_s is equal to '0' and SID_NID_LIST contains entries with different
- 26 SIDs, delete the excess entries according to the rules specified in 2.6.5.1.5.
- 27 • If MULT_NIDS_s is equal to '0' and SID_NID_LIST contains more than one entry for
- 28 any SID, delete the excess entries according to the rules specified in 2.6.5.1.5.
- 29 • Set the stored location of last registration (BASE_LAT_REG_{s-p} and BASE_LONG-
- 30 _REG_{s-p}) to the base station's location (BASE_LAT_s and BASE_LONG_s). Set the
- 31 stored registration distance (REG_DIST_REG_{s-p}) to the base station's registration
- 32 distance (REG_DIST_s).
- 33 • Update its roaming status and set MOB_TERM_s as specified in 2.6.5.3. The mobile
- 34 station should indicate to the user whether the mobile station is roaming.

35 2.6.5.5.4.4 Power Off

36 These procedures are performed when the mobile station is directed by the user to power

37 off.

38 The mobile station shall perform the following actions:

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- 1 • If an entry of ZONE_LIST_s does not have an active timer, copy that entry to
- 2 ZONE_LIST_{s-p}; otherwise, delete the entry in ZONE_LIST_{s-p} if ZONE_LIST_{s-p}
- 3 contains an entry.
- 4 • If an entry of SID_NID_LIST_s does not have an active timer, copy that entry to
- 5 SID_NID_LIST_{s-p}; otherwise, delete the entry in SID_NID_LIST_{s-p} if SID_NID_LIST_{s-}
- 6 p contains an entry.

7 2.6.6 Handoff Procedures

8 This section presents an overview and mobile station requirements for handoffs occurring
9 while the mobile station is in the *Mobile Station Control on the Traffic Channel State* (see
10 2.6.4). Mobile station requirements for handoffs occurring while the mobile station is in
11 the *Mobile Station Idle State* are specified in 2.6.2.1.4.

12 2.6.6.1 Overview

13 2.6.6.1.1 Types of Handoff

14 The mobile station supports the following three handoff procedures while in the *Mobile*
15 *Station Control on the Traffic Channel State*:

- 16 • **Soft Handoff:** A handoff in which the mobile station commences communications
- 17 with a new base station without interrupting communications with the old base
- 18 station. Soft handoff can only be used between CDMA Channels having identical
- 19 Frequency Assignments. Soft handoff provides diversity of Forward Traffic
- 20 Channels and Reverse Traffic Channel paths on the boundaries between base
- 21 stations.
- 22 • **CDMA-to-CDMA Hard Handoff:** A handoff in which the mobile station is
- 23 transitioned between disjoint sets of base stations, different band classes, different
- 24 Frequency Assignments, ~~different long code masks,~~ or different frame offsets.
- 25 • **CDMA-to-Analog Handoff:** A handoff in which the mobile station is directed from a
- 26 CDMA traffic channel to an analog voice channel.

27 The mobile station shall support soft handoffs on the same Frequency Assignment (see
28 2.6.6.2.7). The mobile station shall support CDMA-to-CDMA hard handoffs between band
29 classes on which it supports CDMA operation (see 2.6.6.2.8). The mobile station shall
30 support CDMA-to-Analog handoffs from band classes on which it supports CDMA
31 operation to band classes on which it supports analog operation (see 2.6.6.2.9).

32 2.6.6.1.2 Pilot Sets

33 Within section 2.6.6 the term pilot refers to a Pilot Channel identified by a pilot sequence
34 offset (see [2]), a Walsh function or a quasi-orthogonal function (see [2]), and a Frequency
35 Assignment (see [2]). A pilot is associated with the Forward Traffic Channels in the same
36 Forward CDMA Channel. All pilots in a pilot set have the same CDMA Frequency
37 Assignment.

38 The mobile station searches for pilots on the current CDMA Frequency Assignment to
39 detect the presence of CDMA Channels and to measure their strengths. When the mobile

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- 1 • The mobile station shall store the TMSI code by setting TMSI_CODE_{s-p} to
2 TMSI_CODE_r.
- 3 The mobile station shall set the TMSI expiration time by setting TMSI_EXP_TIME_{s-p}
4 to TMSI_EXP_TIME_r. The mobile station shall disable the full-TMSI timer. The
5 mobile station shall then respond with a *TMSI Assignment Completion Message*
6 within T56m seconds.
- 7 18. *General Page Message or Universal Page Message*: If the mobile station receives a
8 mobile-station-addressed page, the mobile station may determine whether there is
9 a page match (see 2.6.2.3). If a match is declared, the mobile station shall perform
10 the following:
- 11 • Layer 3 shall send an L2-Supervision.Request primitive to Layer 2 to abort any
12 access attempt in progress.
- 13 • The mobile station shall enter the *Page Response Substate*.
- 14 19. *Extended Channel Assignment Message*: If the DIRECT_CH_ASSIGN_IND_r is
15 included and is set to '1', the mobile station shall perform the following:
- 16 ~~• The mobile station shall set CONFIG_MSC_SEQ_s to CONFIG_MSC_SEQ_r.~~
- 17 • Layer 3 shall send an L2-Supervision.Request primitive to Layer 2 to abort any
18 access attempt in progress.
- 19 ~~• If the stored configuration parameters are current (see 2.6.3.2), the mobile~~
20 ~~station shall process the message as specified in section 2.6.3.3; otherwise, the~~
21 ~~mobile station shall process the message as specified in section 2.6.3.3 once~~
22 ~~stored configuration parameters are current.~~
- 23 Otherwise, the mobile station shall ignore this message.
- 24 20. *Fast Call Setup Order*:
- 25 • If ORDQ_r is equal to '00000000', the mobile station shall process the message
26 and respond with a *Fast Call Setup Order* as specified in 2.6.12.1.
- 27 • If ORDQ_r is equal to '00000001', the mobile station shall process the message
28 as specified in 2.6.12.1.
- 29 21. *Any other message*: If the mobile station receives any other message specified in
30 Table 3.7.2.3-1, it shall ignore all Layer 3 fields. The mobile station shall ignore all
31 other messages.
- 32 2.6.4 Mobile Station Control on the Traffic Channel State
- 33 In this state, the mobile station communicates with the base station using the Forward
34 and Reverse Traffic Channels.